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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/620,036

07/15/2003

David T. Beatson

K&S-110US1

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03/02/2004

RATNERPRESTIA

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VALLEY FORGE, PA 19482-0980

EXAMINER

STOCK JR, GORDON J

ART UNIT

PAPER NUMBER

2877

DATE MAILED: 03/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

DETAILED ACTION

Drawings and Specification

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "802" of Fig. 8a has been used to designate both a point and an arrow. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
2. The drawings and specification are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: 205 of Fig. 2b; 312 of Fig. 3; 703 and 707 of Fig. 7a; 924 of Fig. 9; 1000 of Fig. 10a. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 1101 of Fig. 10a. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
4. The preliminary amendment to the specification filed on July 15, 2003 requested a new first paragraph to be added; however, there were no directions in regards to deleting the previous first paragraph. Correction is required.

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5. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: “a vision plane of the substrate” in claim 41; “a vision plane of the substrate” in claim 42; “a vision plane of the bonding machine” of claim 43 lack antecedent basis. Within the specification there is disclosed several planes: “image plane of the bonding tool” of page 5 line 24; “vision plane of the die” of page 4 line 4; “image plane” of lines 15 and 17 of page 3 and page 6 line 11; “object plane of optical imaging unit” of page 6 line 28; an “object plane of cornercube” of page 6 line 29. A consistent “image plane” terminology is required in the claims. Correction is required.

Claim Objections

6. **Claims 41-43** are objected to for the following: the vision planes are inconsistent with specification terminology (see specification objection above). Corrections are required.

Allowable Subject Matter

7. **Claims 41-43** are objected to (see above) but would be allowable if rewritten to overcome the objections stated above.

As to **claim 41**, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a method for positioning a die on a substrate “viewing an indirect image of the die through the cornercube offset tool,” in combination with the rest of the limitations of **claim 41**.

As to **claim 42**, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a method for positioning a die on a substrate “viewing a surface of the die

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through the first lens, the cornercube offset tool, and the second lens” in combination with the rest of the limitations of **claim 42**.

As to **claim 43**, the prior art of record, taken alone or in combination, fails to disclose or render obvious in a method for use with a bonding machine to place a die on a substrate “viewing a portion of a bottom surface of the die through the cornercube offset tool and the lens,” in combination with the rest of the limitations of **claim 43**.

Conclusion

8. This application is in condition for allowance except for the following formal matters:
see objections to claims, specification, and drawings above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

U.S. Patent 5,408,189 to Swart et al.

Fax/Telephone Numbers

If the applicant wishes to send a fax dealing with either a proposed amendment or a discussion with a phone interview, then the fax should:

- 1) Contain either a statement “DRAFT” or “PROPOSED AMENDMENT” on the fax cover sheet; and
- 2) Should be unsigned by the attorney or agent.

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This will ensure that it will not be entered into the case and will be forwarded to the examiner as quickly as possible.

Papers related to the application may be submitted to Group 2800 by Fax transmission. Papers should be faxed to Group 2800 via the PTO Fax machine located in Crystal Plaza 4. The form of such papers must conform to the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CP4 Fax Machine number is: (703) 872-9306

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gordon J. Stock whose telephone number is (571) 272-2431.

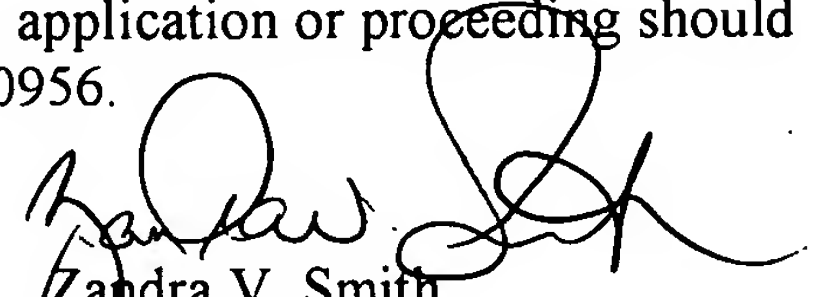
The examiner can normally be reached on Monday-Friday, 8:00 a.m. - 4:30 p.m.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.



gs

February 17, 2004


Zandra V. Smith
Primary Examiner
Art Unit 2877